

## Technical Manual

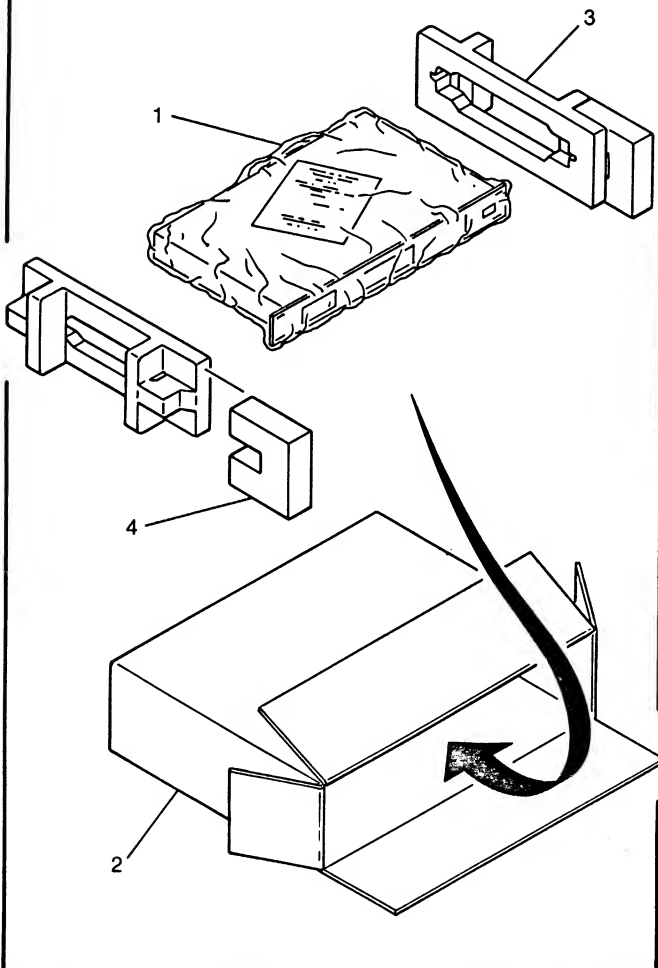


# AUDIO DIGITAL TC-5 INDUSTRIAL PROCESSOR

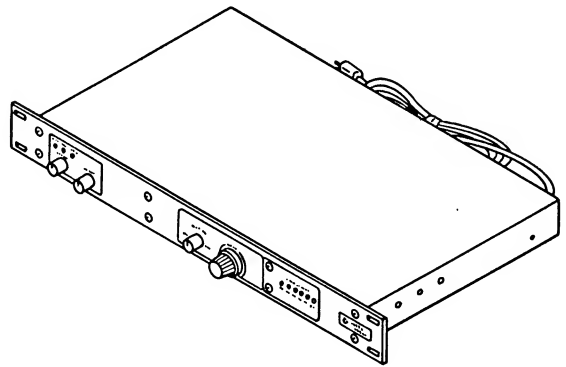
## SPECIFICATIONS

- 20-20 kHz bandwidth
- Less than .1 THD + noise @ 1 kHz
- 90 dB Dynamic Range (minimum)
- Parallel and couple jacks for expanding number of outputs
- 500 ms delay time standard
- Delay time internally expandable to over one second.
- Input display and separate adjustments for input/output gain
- Adjustable in .5 millisecond steps
- One rack space
- THD & Noise: Less than .1 THD + noise @ 1 kHz
- Frequency Response: 20-20 kHz bandwidth
- Dynamic Range: 90 dB, A-weighted
- Delayed Capacity: - 500 milliseconds standard  
- 1 second with factory option
- Active Balanced Inputs: (1/4" stereo jack) 50k ohm  
(can also be unbalanced using mono 1/4" plug)
- Active Balanced Outputs: (1/4" stereo jack) (can also be unbalanced using mono 1/4" plug)  
100 ohm impedance will drive 10k ohm load to + 21 dB (at clipping)  
will drive 600 ohm load to + 18 dB (at clipping)  
Parallel and couple jacks for expanding number of outputs
- Power Supply: 80 Volts AC-145 Volts AC  
195 Volts AC-240 Volts AC
- Dimensions: Standard rack mount  
44mm x 482mm x 257mm D  
(1.75 x 19.0 x 10.12 in. D)
- Shipping Weight: 12 lbs. (5.4 kg.)
- Warranty Information: Refer to the Warranty Statement packed with each product

## PACKAGE



## COMPONENT VIEW



## COMPONENT PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
1	550-1824-03	1	POLY BAG, 16x24x.004
2	550-1000-00	1	SHIPPING CARTON, ADD SERIES
3	550-0002-00	2	SHIPPING INSERT, UNIV, POLYFOAM
4	550-0003-00	2	SHIPPING INSERT, TCX FILL BLOCK
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# AUDIO DIGITAL TC-5

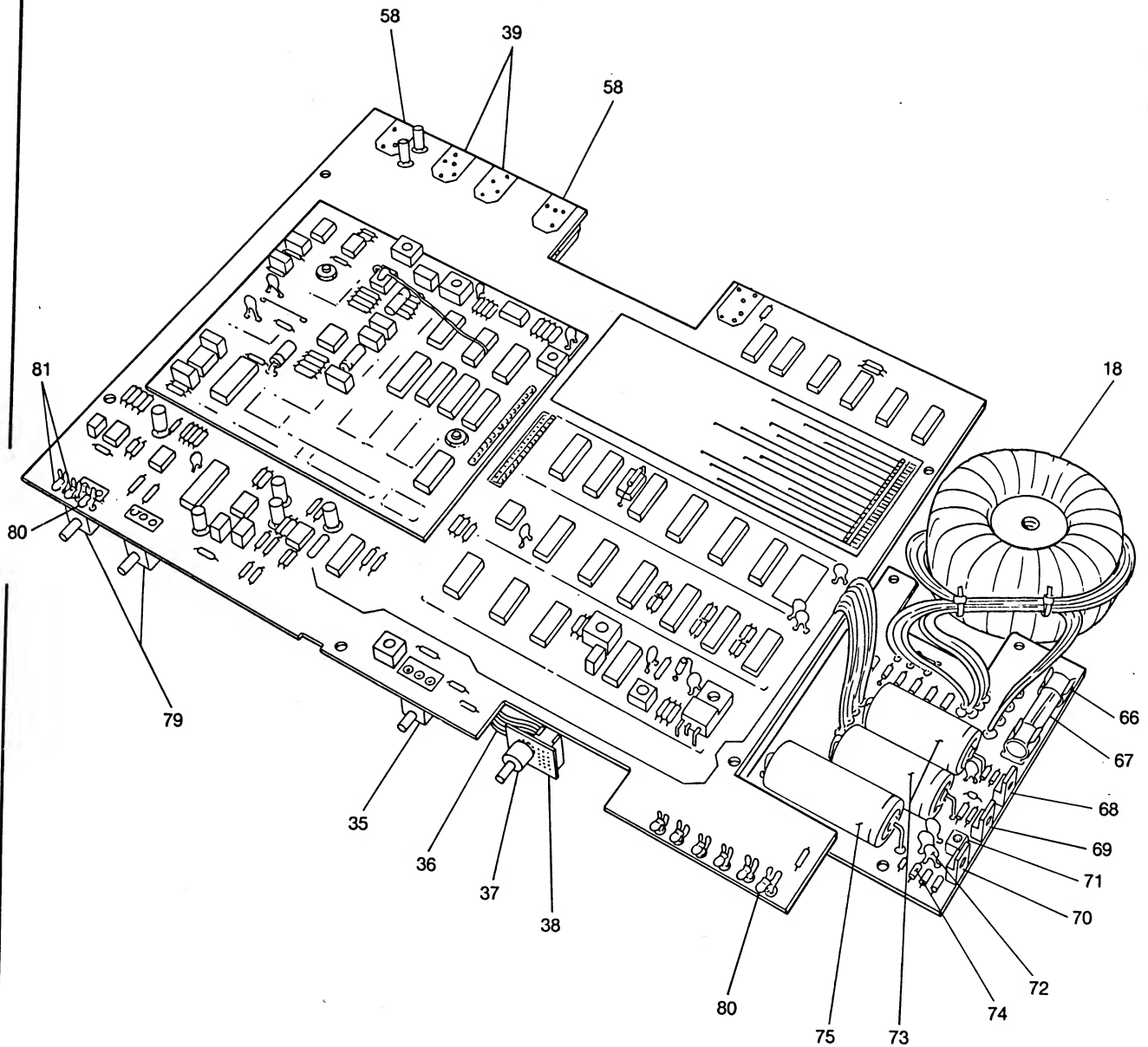
## COMPONENT PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
9	530-2440-31	10	4-40x3/8 PHILLIPS PH BLK OXIDE
10	540-0305-00	6	WASHER, #4, INT. TOOTH, LCK, BLK OX.
11		1	LID
12	530-2440-25	4	SCREW, 4-40x3/8, SLT'D PH, NYLON
13	540-0306-00	1	WASHER, #6, EXT. TOOTH, LOCK
14	530-3440-25	3	SCREW, 4-40x.250, SLT'D PH, STEEL
15			
16	535-1032-00	1	NUT, 10-32, HEX
17	540-0310-01	1	WASHER, #10, EXT TOOTH, LOCK
18	610-2092-02	1	TRANSFORMER, AC LINE, TOROIDAL
19	595-2345-00	1	INSUL., TCXA/D, 10 MIL RAG PAPER
20	535-1440-00	9	NUT, 4-40 HEX, SELF LK, NYL. INSRT
21	540-0304-00	3	WASHER, #4 SHLDR, INSUL. FIBER
22	540-0220-02	3	WASHER, T0-220, INSUL. MYLAR
23			
24	590-2345-00	1	SERIAL NO. PLATE, ADHES, CUSTOM
25	527-0250-25	4	SPACER, .250x1/4 HEX, 4-40, ALUM
26	590-0375-00	4	HOLE PLUG, .375 DIA, BLK PLASTIC
27	520-0345-00	1	HOLE COVER, TC-X
28	450-0775-03	1	CORD, AC LINE, 6', 18/3 SJ, MLD END
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32	561-0111-01	1	CAP, 11 MM, GREY, W/LINE
33	561-0150-01	1	CAP, 15 MM, GREY, PLAIN
34	560-0150-01	1	KNOB, 15 MM, PLN W/SKT, 1/8" SHFT
35	130-4594-00	1	POT. 25K, LINEAR, 20%
36	470-0014-29	9	CABLE, 14 CON, 28AWG, RIBBON
37	620-0012-01	1	SWITCH, ROTARY, 12 POS
38	425-1403-14	2	HEADER, 14 PIN, PCB TRANS., IDC
39	422-0002-01	2	JACK, 1/4 PH, 2 CON SHTG, PC MNT
40	590-0005-00	1	STRAIN RELIEF, PLASTIC
41	540-0104-00	1	SOLDER LUG, #4 STAR WASHER, BNT
42	530-1032-15	1	SCREW, 10-32x1.50, SKT FLT HD, BLK
43	530-1440-50	4	SCREW, 4-40x.625, SOC BTN HD, BLK
44	515-0005-00	1	FACEPLATE, TC-5
45	560-0110-00	3	KNOB, 11 MM, PLAIN

ITEM	PART NO.	QTY	DESCRIPTION
46	561-0111-00	2	CAP, 11 MM, BLK, W/LINE
47	530-0632-37	8	SCREW, 6-32x.375, SKT FLT HD, BLK
48	527-0812-25	5	SPACER, .812x1/4 HEX, 4-40, ALUM
49	505-0345-01	1	CHASSIS, TC-X
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58	422-0003-00	2	JACK, 1/4 PHONE, 3 CON, PC MNT
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66	420-0001-00	2	SOCKET, FUSE CLIP
67	640-0250-01	1	FUSE, AGC, 1/4 A, 250V, SLO BLO
68	325-7915-00	1	VOLTAGE REGULATOR, -15V, T0220
69	325-0340-00	1	VOLTAGE REGULATOR +15V, T0220
70	325-0350-00	1	VOLTAGE REGULATOR, ADJ., T0220
71	140-0502-02	1	POT, 5K, TRIMMER, 10%
72	240-0225-00	4	CAPACITOR, 2.2μF, 35V, TANTALUM
73	210-0228-50	2	CAPACITOR, 2200μF, 50V, ELECTROL.
74	310-5392-01	14	DIODE, PWR RECTIF., 1.5 AMP, 100V
75	210-0478-35	1	CAPACITOR, 4700μF, 35V, ELECTROL.
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80	312-5086-01	7	DIODE, LED, RED, T1
81	312-5286-01	2	DIODE, LED, GREEN, T1
82			

# AUDIO DIGITAL TC-5

## CIRCUIT BOARDS



# AUDIO DIGITAL TC-5

## COMPONENT EXPLODED VIEW

